

Using AI to accelerate UI Test Development

1) Test case ideation and coverage:

- Ask AI to list important test scenarios for a site or feature.
- Use the checklist to prioritize automated tests.

2) Page Object Model generation:

- Provide AI with sample page HTML or screenshots to create initial POM class templates.
- AI can set up locators and common actions, saving time on repetitive tasks.

3) Data-driven tests:

- Request AI to turn business rules into data tables (CSV/JSON) for parameterized tests.
- AI can create edge case datasets (large strings, unicode, boundary numbers).

4) Test implementation and debugging:

- Use AI to explain failing stack traces and suggest fixes for unreliable selectors or timing problems.

5) Reports and documentation:

- Create easy to read README files, test summaries, and PR descriptions using AI.

6) Caveats:

- Always check and confirm AI-generated code. Keep sensitive data out of prompts.

Example workflow:

1. Describe the application and desired scenarios to the AI.
2. Request POM scaffolding and a sample test.
3. Validate and run the generated test locally, and adjust selectors.
4. Add test data and CI integration.